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SUBSTITUTE PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket	50207/002003
		No. Serial No.	10/749,369
		Applicant	Mehmet Toner et al
		Filing Date	December 31, 2003
		Group	1651
(37 C.F.R. § 1.98(b))		IDS Filed	January 20, 2006

U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)

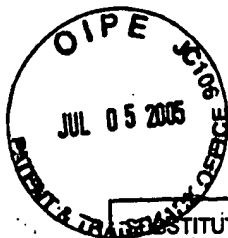
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
<i>LC</i>	Toner et al "Cryomicroscopic Analysis of Intracellular Ice Formation during Freezing of Mouse Oocytes Without Cryoadditives," Cryobiology 28: 55-71 (1991)

EXAMINER <i>LANKSFORD</i>	DATE CONSIDERED <i>3/30/06</i>
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	50207/002002	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. §1.98(b))				Serial No.	09/859,106 '309	
				Applicant	Mehmet Toner et al.	
				Filing Date	May 16, 2001	
				Group	1651	
				IDS Filed	June 12, 2003	
				Customer No.	21559	
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
181	WO 97 45010	12/04/97	WIPO			No
↓	WO 98 09514	03/12/98	WIPO			No
↓	WO 00 15032	03/23/00	WIPO			No
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
EXAMINER			DATE CONSIDERED			
LANKFORD			3/30/6			
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(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

50207/002002

Serial No.

~~00/059,105~~

1369

Applicant

Mehmet Toner et al.

Filing Date

May 16, 2001

Group

1638

IDS Filed

January 14, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

U.S. PATENTS

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Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

LBL	Chen et al., "Literature Review: Supplemented Phase Diagram of the Trehalose - Water Binary Mixture," <i>Cryobiology</i> 40:277-282 (2000).
/	Critser et al., "The Cryobiology of Mammalian Oocytes," <i>Reproductive Tissue Banking</i> p. 329-357 (1997).
/	Oktay et al., "Cryopreservation of Immature Human Oocytes and Ovarian Tissue: An Emerging Technology?," <i>Fertility And Sterility</i> 69(1):1-7 (1998).
✓	Shanina et al., "A Comparison of a Sucrose-based Solution with Other Preservation Media for Cold Storage of Isolated Hepatocytes," <i>Cryobiology</i> 41:315-318 (2000).

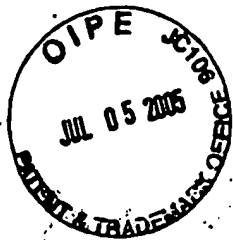
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SUBSTITUTE FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	Attorney Docket No.	50207/002003
	Serial No.	10/749,369
	Applicant	Mehmet Toner et al.
	Filing Date	December 31, 2003
	Group	1651
IDS Filed	June 30, 2005	

U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
LBI	4,724,206 A	9/2/1988	Rupp et al.	—	—	
↓	5,182,299	1/26/1993	Gullans et al.	—	—	
↓	5,672,502	9/30/1997	Birch et al.	—	—	
↓	6,376,743	4/23/2002	Yanagimachi	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
LBI	Suinners et al., "Chemically Defined Media and the Culture of Mammalian Preimplantation Embryos: Historical Perspective and Current Issues," <i>Hum. Reprod. Update</i> 9:557-582 (2003).					

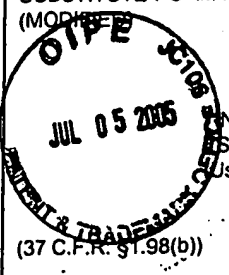
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	Serial No.	10/749,369
	Applicant	Mehmet Toner et al.
	Filing Date	December 31, 2003
	Group	1651
	IDS Filed	October 7, 2005

U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
lp	5,654,266 A	8/5/1997	Chen et al.	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
	Bell et al., "Effects of Contrast Media on Calcium Transients and Motion in Cultured Ventricular Cells," <i>Investigative Radiology</i> 23:842-846 (1988).					
lp	Oda et al., "Osmotic Shock of Fertilized Mouse Ova," <i>Journal of Reproduction and Fertility</i> , UK 95:737-747 (1992).					
↓	Van Os et al., "Volumetric Behavior and Survival of Mouse Zygotes and Embryos in Hyperosmotic Media," <i>Human Reproduction</i> 1:95-98 (1986).					

EXAMINER LANKFORD	DATE CONSIDERED 2/30/06
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE 		Attorney Docket No. 50207/002002 Serial No. 89/868,185 '36, Applicant Mehmet Toner et al. Filing Date May 16, 2001 Group Not Yet Assigned IDS Filed August 20, 2001 Customer No. 21559				
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
UCL	5,496,720	3/5/96	Susko-Parrish et al.	435	240.2	2/10/93
J	5,827,741	10/27/98	Beattie et al.	435	374	11/19/96
d	6,127,177	10/3/00	Toner et al.	435	374	9/11/98
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
UCL	WO 99/31977 A1	1.7.99	WIPO	—	—	No
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
UCL	Beattie et al., "Trehalose: A cryoprotectant that enhances recovery and preserves function of human pancreatic islets after long-term storage," <i>Diabetes</i> 46:519-523 (1997).					
	Donnamaria et al., "Interaction of water with α,α -trehalose in solution: molecular dynamics simulation approach," <i>Chem. Soc. Faraday Trans.</i> 90(18):2731-2735 (1994).					
	Eroglu et al., "Intercellular trehalose improves the survival of cryopreserved mammalian cells," <i>Nature Biotechnology</i> 18:163-167 (2000).					
	Guo et al., "Trehalose expression confers desiccation tolerance on human cells," <i>Nature Biotechnology</i> 18:168-171 (2000).					
	Janik et al., "Overcoming a permeability barrier by microinjecting cryoprotectants into zebrafish embryos (<i>Brachydanio rerio</i>)," <i>Cryobiology</i> 41:25-34 (2000).					
	Knight et al., "Microinjection of ^{14}C -sucrose and other tracers into isolated phloem strands of heracleum," <i>Can. J. Bot.</i> 52:1491-1499 (1974).					
	Hagedorn et al., "Magnetic resonance microscopy and spectroscopy reveal kinetics of cryoprotectant permeation in a multicompartmental biological system," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 93:7454-7459 (1996).					
	Hagedorn et al., "New approaches for studying the permeability of fish embryos: Toward successful cryopreservation," <i>Cryobiology</i> 34:335-347 (1997).					
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SUBSTITUTE FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50207/002002 Serial No. 09/068,705 1369 Applicant Mehmet Toner et al. Filing Date May 16, 2001 Group Not Yet Assigned IDS Filed August 20, 2001 Customer No. 21559				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)						
(37 C.F.R. §1.98(b))						
U.S. PATENTS						
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LB	Levine et al., "Thermomechanical properties of small-carbohydrate-water glasses and 'rubbers'," <i>J. Chem. Soc., Faraday Trans.</i> , 84(8):2619-2633 (1988).					
	Marchase et al., "Glucose phosphotransferase and intracellular trafficking," <i>Molecular and Cellular Biochemistry</i> 72:101-107 (1986).					
	Paynter et al., "Permeability characteristics of human oocytes in the presence of the cryoprotectant dimethylsulphoxide," <i>Human Reproduction</i> 14(9):2338-2342 (1999).					
	Rayos et al., "Quick freezing of unfertilized mouse oocytes using ethylene glycol with sucrose or trehalose," <i>Journal of Reproduction and Fertility</i> 100:123-129 (1994).					
✓	Russo et al., "Reversible permeabilization of plasma membranes with an engineered switchable pore," <i>Nature Biotechnology</i> 15:278-282 (1997).					
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